

=====

Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=1; day=23; hr=14; min=41; sec=25; ms=263;]

=====

Application No: 10753646 Version No: 2.0

Input Set:

Output Set:

Started: 2008-01-10 13:56:12.019
Finished: 2008-01-10 13:56:13.756
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 737 ms
Total Warnings: 42
Total Errors: 2
No. of SeqIDs Defined: 51
Actual SeqID Count: 51

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
E 257	Invalid sequence data feature in <221> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
E 257	Invalid sequence data feature in <221> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-01-10 13:56:12.019
Finished: 2008-01-10 13:56:13.756
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 737 ms
Total Warnings: 42
Total Errors: 2
No. of SeqIDs Defined: 51
Actual SeqID Count: 51

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> DAVIDSON, DONALD J.

GUBBINS, EARL J.

WANG, JIEYI

<120> NOVEL ANTIANGIOGENIC PEPTIDES, POLYNUCLEOTIDES
ENCODING SAME AND METHODS FOR INHIBITING
ANGIOGENESIS

<130> 5940.US.C3

<140> 10753646

<141> 2004-01-08

<150> 08/851,350

<151> 1997-05-05

<150> 08/643,219

<151> 1996-05-03

<150> 08/832,087

<151> 1997-04-03

<160> 51

<170> PatentIn version 3.3

<210> 1

<211> 791

<212> PRT

<213> Homo sapiens

<400> 1

Glu Pro Leu Asp Asp Tyr Val Asn Thr Gln Gly Ala Ser Leu Phe Ser
1 5 10 15

Val Thr Lys Lys Gln Leu Gly Ala Gly Ser Ile Glu Glu Cys Ala Ala
20 25 30

Lys Cys Glu Glu Asp Glu Glu Phe Thr Cys Arg Ala Phe Gln Tyr His
35 40 45

Ser Lys Glu Gln Gln Cys Val Ile Met Ala Glu Asn Arg Lys Ser Ser
50 55 60

Ile Ile Ile Arg Met Arg Asp Val Val Leu Phe Glu Lys Lys Val Tyr
65 70 75 80

Leu Ser Glu Cys Lys Thr Gly Asn Gly Lys Asn Tyr Arg Gly Thr Met
85 90 95

Ser Lys Thr Lys Asn Gly Ile Thr Cys Gln Lys Trp Ser Ser Thr Ser
100 105 110

Pro His Arg Pro Arg Phe Ser Pro Ala Thr His Pro Ser Glu Gly Leu
115 120 125

Glu Glu Asn Tyr Cys Arg Asn Pro Asp Asn Asp Pro Gln Gly Pro Trp
130 135 140

Cys Tyr Thr Thr Asp Pro Glu Lys Arg Tyr Asp Tyr Cys Asp Ile Leu
145 150 155 160

Glu Cys Glu Glu Cys Met His Cys Ser Gly Glu Asn Tyr Asp Gly
165 170 175

Lys Ile Ser Lys Thr Met Ser Gly Leu Glu Cys Gln Ala Trp Asp Ser
180 185 190

Gln Ser Pro His Ala His Gly Tyr Ile Pro Ser Lys Phe Pro Asn Lys
195 200 205

Asn Leu Lys Lys Asn Tyr Cys Arg Asn Pro Asp Arg Glu Leu Arg Pro
210 215 220

Trp Cys Phe Thr Thr Asp Pro Asn Lys Arg Trp Glu Leu Cys Asp Ile
225 230 235 240

Pro Arg Cys Thr Thr Pro Pro Pro Ser Ser Gly Pro Thr Tyr Gln Cys
245 250 255

Leu Lys Gly Thr Gly Glu Asn Tyr Arg Gly Asn Val Ala Val Thr Val
260 265 270

Ser Gly His Thr Cys Gln His Trp Ser Ala Gln Thr Pro His Thr His
275 280 285

Asn Arg Thr Pro Glu Asn Phe Pro Cys Lys Asn Leu Asp Glu Asn Tyr
290 295 300

Cys Arg Asn Pro Asp Gly Lys Arg Ala Pro Trp Cys His Thr Thr Asn
305 310 315 320

Ser Gln Val Arg Trp Glu Tyr Cys Lys Ile Pro Ser Cys Asp Ser Ser
325 330 335

Pro Val Ser Thr Glu Gln Leu Ala Pro Thr Ala Pro Pro Glu Leu Thr
340 345 350

Pro Val Val Gln Asp Cys Tyr His Gly Asp Gly Gln Ser Tyr Arg Gly
355 360 365

Thr Ser Ser Thr Thr Thr Gly Lys Lys Cys Gln Ser Trp Ser Ser
370 375 380

Met Thr Pro His Arg His Gln Lys Thr Pro Glu Asn Tyr Pro Asn Ala
385 390 395 400

Gly Leu Thr Met Asn Tyr Cys Arg Asn Pro Asp Ala Asp Lys Gly Pro
405 410 415

Trp Cys Phe Thr Thr Asp Pro Ser Val Arg Trp Glu Tyr Cys Asn Leu
420 425 430

Lys Lys Cys Ser Gly Thr Glu Ala Ser Val Val Ala Pro Pro Pro Val
435 440 445

Val Leu Leu Pro Asp Val Glu Thr Pro Ser Glu Glu Asp Cys Met Phe
450 455 460

Gly Asn Gly Lys Gly Tyr Arg Gly Lys Arg Ala Thr Thr Val Thr Gly
465 470 475 480

Thr Pro Cys Gln Asp Trp Ala Ala Gln Glu Pro His Arg His Ser Ile
485 490 495

Phe Thr Pro Glu Thr Asn Pro Arg Ala Gly Leu Glu Lys Asn Tyr Cys
500 505 510

Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Cys Tyr Thr Thr Asn
515 520 525

Pro Arg Lys Leu Tyr Asp Tyr Cys Asp Val Pro Gln Cys Ala Ala Pro
530 535 540

Ser Phe Asp Cys Gly Lys Pro Gln Val Glu Pro Lys Lys Cys Pro Gly
545 550 555 560

Arg Val Val Gly Gly Cys Val Ala His Pro His Ser Trp Pro Trp Gln
565 570 575

Val Ser Leu Arg Thr Arg Phe Gly Met His Phe Cys Gly Gly Thr Leu
580 585 590

Ile Ser Pro Glu Trp Val Leu Thr Ala Ala His Cys Leu Glu Lys Ser
595 600 605

Pro Arg Pro Ser Ser Tyr Lys Val Ile Leu Gly Ala His Gln Glu Val
610 615 620

Asn Leu Glu Pro His Val Gln Glu Ile Glu Val Ser Arg Leu Phe Leu
625 630 635 640

Glu Pro Thr Arg Lys Asp Ile Ala Leu Leu Lys Leu Ser Ser Pro Ala
645 650 655

Val Ile Thr Asp Lys Val Ile Pro Ala Cys Leu Pro Ser Pro Asn Tyr
660 665 670

Val Val Ala Asp Arg Thr Glu Cys Phe Ile Thr Gly Trp Gly Glu Thr
675 680 685

Gln Gly Thr Phe Gly Ala Gly Leu Leu Lys Glu Ala Gln Leu Pro Val
690 695 700

Ile Glu Asn Lys Val Cys Asn Arg Tyr Glu Phe Leu Asn Gly Arg Val
705 710 715 720

Gln Ser Thr Glu Leu Cys Ala Gly His Leu Ala Gly Gly Thr Asp Ser
725 730 735

Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Phe Glu Lys Asp Lys
740 745 750

Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu Gly Cys Ala Arg Pro
755 760 765

Asn Lys Pro Gly Val Tyr Val Arg Val Ser Arg Phe Val Thr Trp Ile

770

775

780

Glu Gly Val Met Arg Asn Asn
785 790

<210> 2
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 2
attaatggat cttggacaa gaggctgctt ccagatgtag agact 45

<210> 3
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 3
attaatggat cttggacaa gaggggtccag gactgctacc atgg 45

<210> 4
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 4
attaatctcg aggcatgctt aggccgcaca ctgatggaca 40

<210> 5
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 5
attaatctcg aggcatgctt aaaatgaagg ggccgcacac t 41

<210> 6
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<220>
<221> MOD_RES
<222> (5)..(5)
<223> 3-I-Tyr

<400> 6
Pro Arg Lys Leu Xaa Asp Tyr
1 5

<210> 7
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 7
gaaacttcca aaagtgcgca ta 22

<210> 8
<211> 92
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 8
attaatgaat tcctcgagcg gtccgggatc cctcgccagc ggaacccaacg gttagtgac 60

taactggctg agcgaagaca gattgcaaag ta 92

<210> 9
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 9
atgttctctc caattttgtc ctggaaaatt attttagctt tggctacttt gcaatctgtc 60

ttcgctcagc cagttatctg cactaccgtt gggtccgctg ccgaggggatc c 111

<210> 10
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 10
gtccaggact gctaccat 18

<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 11
ctgcttccag atgttagaga 19

<210> 12
<211> 2497
<212> DNA
<213> Homo sapiens

<400> 12
catcctggga ttgggaccca ctttctggc actgctggcc agtcccaaaa tggaacataa 60
ggaagtgggtt cttctacttc ttttatttct gaaatcaggt caaggagagc ctctggatga 120
ctatgtgaat acccaggggg cttcactgtt cagtgtaact aagaagcagc tgggagcagg 180
aagtatagaa gaatgtgcag caaatgtga ggaggacgaa gaattcacct gcagggcatt 240
ccaatatcac agtaaagagc aacaatgtgt gataatggct gaaaacagga agtcctccat 300
aatcattagg atgagagatg tagtttatt tgaaaagaaa gtgtatctct cagagtgc当地 360
gactggaaat ggaaagaact acagagggac gatgtccaaa aaaaaaaaaatg gcatcacctg 420
tcaaaaaatgg agttccactt ctcacccacag accttagattc tcacctgcta cacacccctc 480
agagggactg gaggagaact actgcaggaa tccagacaac gatccgcagg ggccctggtg 540
ctatactact gatccagaaa agagatatga ctactgcgac attcttgagt gtgaagagga 600
atgtatgcat tgcagtggag aaaactatga cggcaaaatt tccaagacca tgtctggact 660
ggaatgccag gcctggact ctcagagccc acacgctcat ggatacattc cttccaaatt 720
tccaaacaag aacctgaaga agaattactg tcgtaacccc gatagggagc tgcggccttg 780
gtgtttcacc accgacccca acaagcgctg ggaactttgt gacatcccc gctgcacaac 840

acctccacca tcttctggc ccacctacca gtgtctgaag ggaacaggtg aaaactatcg 900
cggaatgtg gctgttaccg tgtccggca cacctgtcag cactggagtg cacagacccc 960
tcacacacat aacaggacac cagaaaactt cccctgaaa aatttggatg aaaactactg 1020
ccgcaatcct gacggaaaaa gggccccatg gtgccataca accaacagcc aagtgcggtg 1080
ggagtactgt aagataccgt cctgtgactc ctccccagta tccacggaac aattggctcc 1140
cacagcacca cctgagctaa cccctgttgtt ccaggactgc taccatggtg atggacagag 1200
ctaccgaggc acatcctcca ccaccaccac aggaaagaag tgtcagtctt ggtcatctat 1260
gacaccacac cggcaccaga agaccccaga aaactaccca aatgctggcc tgacaatgaa 1320
ctactgcagg aatccagatg ccgataaagg cccctggtgtt tttaccacag accccagcgt 1380
caggtgggag tactgcaacc tgaaaaaatg ctcaggaaca gaagcgagtg ttgttagcacc 1440
tccgcctgtt gtccctgcttc cagatgtaga gactccttcc gaagaagact gtatgtttgg 1500
gaatggaaa ggataccgag gcaagagggc gaccactgtt actgggacgc catgccagga 1560
ctgggctgcc caggagcccc atagacacag cattttcact ccagagacaa atccacgggc 1620
gggtctggaa aaaaattact gccgtaaccc ttagtggatgt gtaggtggtc cctggtgcta 1680
cacgacaaat ccaagaaaac ttacgacta ctgtgatgtc cctcagtgtg cggcccccctc 1740
atttgattgt gggaaagcctc aagtggagcc gaagaaatgt cctggaaggg ttgttaggggg 1800
gtgtgtggcc caccacatt cctggccctg gcaagtcagt cttagaacaa ggtttggaat 1860
gcacttctgt ggaggcacct ttagatcccc agagtgggtg ttgactgctg cccactgctt 1920
ggagaagtcc ccaaggcctt catcctacaa ggtcatcctg ggtgcacacc aagaagtgaa 1980
tctcgaaccg catgttcagg aaatagaagt gtctaggctg ttcttggagc ccacacgaaa 2040
agatattgcc ttgctaaagc taagcagtcc tgccgtcattc actgacaaag taatcccagc 2100
ttgtctgcca tccccaaatt atgtggtcgc tgaccggacc gaatgtttcg tcactggctg 2160
gggagaaaacc caaggtactt ttggagctgg cttctcaag gaagcccagc tccctgtgat 2220
tgagaataaa gtgtgcaatc gctatgagtt tctgaatgga agagtccat ccaccgaact 2280
ctgtgctggc cattttggccg gaggcactga cagttgccag ggtgacagtg gaggtccct 2340
ggtttgcctc gagaaggaca aatacattt acaaggagtc acttcttggg gtcttgctg 2400
tgcaacgcccc aataaggcctg gtgtctatgt tcgtgtttca aggtttgtta ctggatgaa 2460
gggagtgatg agaaataatt aattggacgg gagacag 2497

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 13
tttattaggcc gcacactgag gga 23

<210> 14
<211> 128
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 14
agcgtctcat gaagagctgg ctcacacctcg ggtgggcctt tctgcgcctt ggccgcgcca 60
ccttaattaa ccgggagccc gcctaattgag cgggcttttt tttgctcttc atagtgactg 120
agacgtcg 128

<210> 15
<211> 175
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 15
agcgtctcag gtgggttgtca tcaccatcac catcacggtg gtggtctggc gccgcgcggc 60
agctgaagag ctggctcacc ttccgggtggg cctttctgcg ccttggcg 120
ttaaccggga gccccctaa tgagcgggct ttttttgct cttcacgaga cgtcg 175

<210> 16
<211> 156
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 16
agcgtctcag gtgggttgtca tcaccatcac catcacggtg gtggttgaag agctggctca 60
ccttcgggtg ggcctttctg cgccattggcg cgccaaacctt aatataaccgg gagcccgct 120

aatgagcggg ctttttttg ctcttcacga gacgtc 156

<210> 17
<211> 172
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 17
agcgtctcag gtgggtgtca tcaccatcac catcacggtg gtgggtatga cgatgacaag 60
tgaagagctg gctcacccctc gggtgggcct ttctgcgcct tggcgcgcca accttaattta 120
accggggagcc cgccataatga gccccctttt ttttgctctt cacgagacgt cg 172

<210> 18
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 3-I-Tyr

<400> 18
Pro Arg Lys Leu Tyr Asp Xaa
1 5

<210> 19
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 19
catgtgaaga gc 12

<210> 20
<211> 12
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 20

gatcgcttca

12

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 21

agatctcgatccgcgaa

18

<210> 22

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 22

atccggatatagttcctc

18

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 23

cgggcttttttttgcttc a

21

<210> 24

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 24

cagatttcgtcaagactt

19

<210> 25

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 25
accacacctt agccttag 18

<210> 26
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 26
catggatatat ctcccttctt 19

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 27
tgagcaataaa ctagcataac 20

<210> 28
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 28
agatctcgat cccgcgaa 18

<210> 29
<211> 17
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 29
tttaggtctca ggggagt 17

<210> 30
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 30
ttcagaacct ttcctggca 19

<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 31
agcggcgacg acgacgacaa g 21

<210> 32
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 32
cttgcgtcgtc tcgtcgccgc t 21

<210> 33
<211>